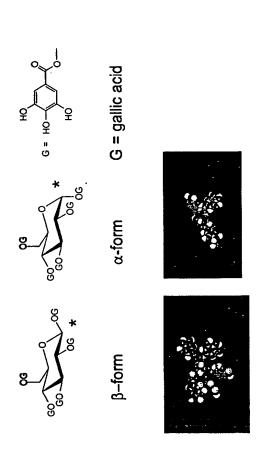
10/522662



PGG consists of a glucose core that is covalently linked to five gallic acids through ester bonds. With simulated PGG conformations indicate that β-PGG may be more symmetrical (thus less polar) than two possible configurations at carbon 1(*) of glucose, two anomers of PGG exist. Computer Fig. 1. Structure of penta-O-galloyl-D- glucose (PGG). α-PGG.

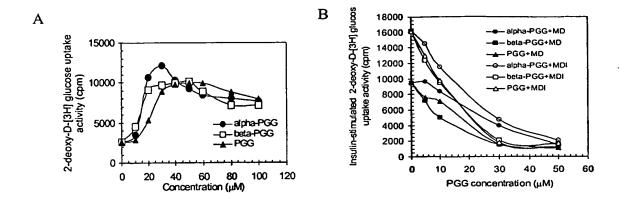


Fig. 2

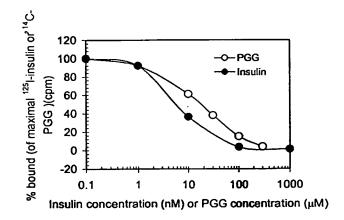


Fig. 3

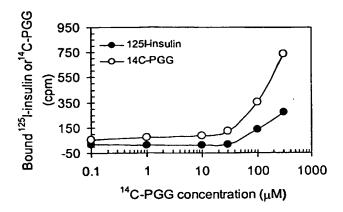


Fig. 4

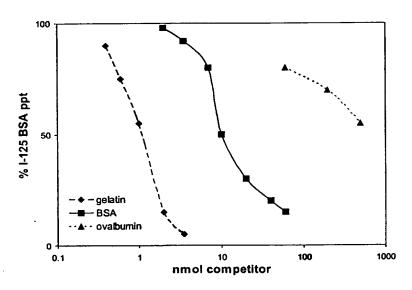


Fig. 5

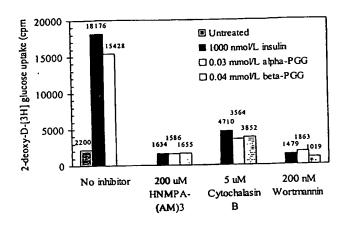


Fig. 6

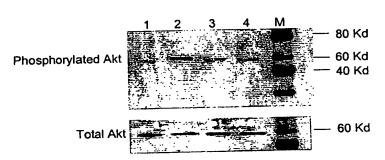
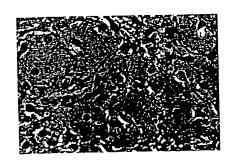


Fig. 7



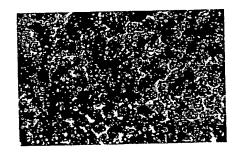




Fig. 8

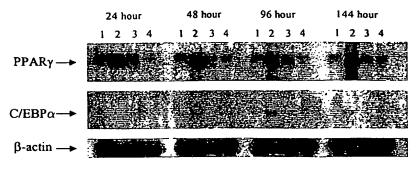


Fig. 9

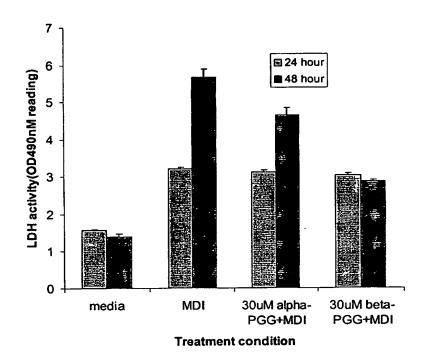
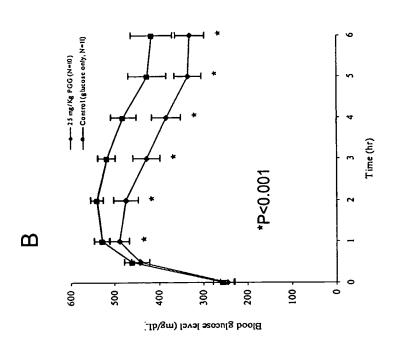


Fig. 10

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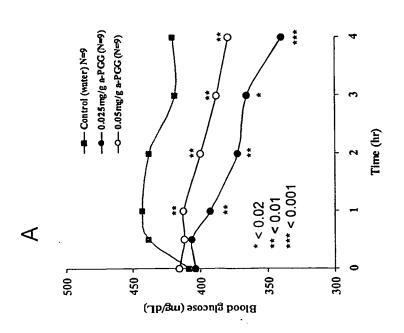


Fig 11. Hypoglycemic effects of PGG in db/db and ob/ob mice. Various doses of α -PGG were orally delivered without glucose to db/db mice (A) or with glucose to ob/ob mice (B) mice. At different times post the delivery, glucose was determined in samples from tail blood.

Effect of α -PGG on blood glucose in Ob/Ob mice

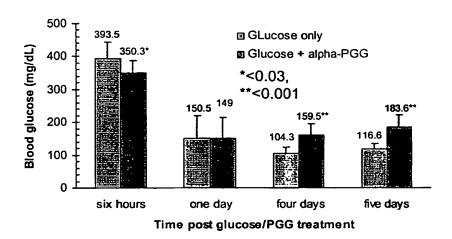


Fig. 12

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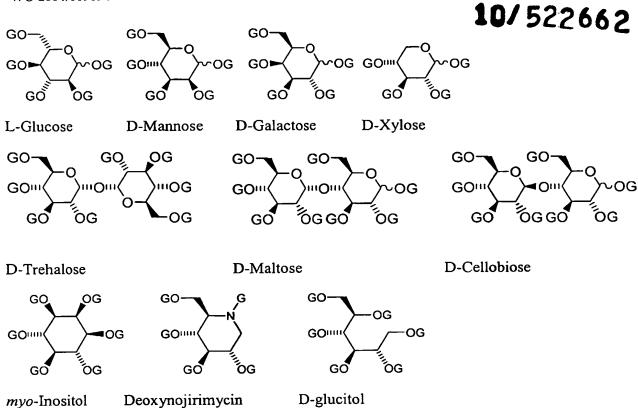


Fig. 13

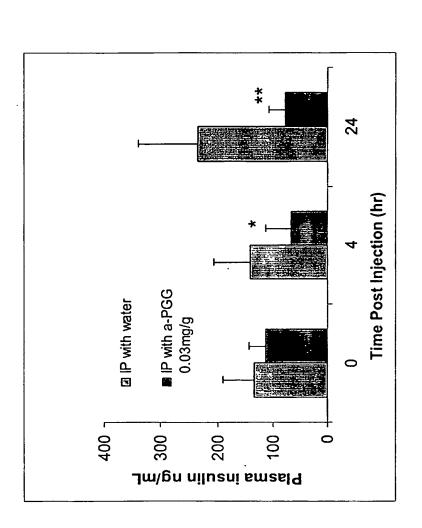


Fig 14. PGG reduces plasma insulin levels in ob/ob mice.

Plasma from each mouse was isolated at various times post injection and was measured for insulin levels. * P <0.03, ** P < 0.005. Diabetic and obese ob/ob mice were injected i.p. with either water or α -PGG.

